

**IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF OHIO**

STORMBORN TECHNOLOGIES LLC,

Plaintiff,

v.

EATON CORPORATION,

Defendant.

Civil Action No.:

TRIAL BY JURY DEMANDED

COMPLAINT FOR INFRINGEMENT OF PATENT

Now comes Plaintiff, Stormborn Technologies LLC (“Plaintiff” or “Stormborn”), by and through undersigned counsel, and respectfully alleges, states, and prays as follows:

NATURE OF THE ACTION

1. This is an action for patent infringement under the Patent Laws of the United States, Title 35 United States Code (“U.S.C.”) to prevent and enjoin Defendant Eaton Corporation (hereinafter “Defendant” or “Eaton”), from infringing and profiting, in an illegal and unauthorized manner, and without authorization and/or consent from Plaintiff from U.S. Patent No RE44,199 (“the ‘199 Patent” or the “Patent-in-Suit”), which is attached hereto as Exhibit A and incorporated herein by reference, and pursuant to 35 U.S.C. §271, and to recover damages, attorney’s fees, and costs.

THE PARTIES

2. Plaintiff is a Texas limited liability company with its principal place of business at 6205 Coit Road, Ste 300 – 1028, Plano, Texas 75024.

3. Upon information and belief, Defendant is a corporation organized under the laws of Ohio, having a principal place of business at 1000 Eaton Boulevard, Beachwood, Ohio 44122.

Upon information and belief, Defendant may be served with process c/o CT Corporation System, 4400 Easton Commons Way – Suite 125, Columbus, Ohio 43219.

4. Plaintiff is further informed and believes, and on that basis alleges, that Defendant operates the website www.eaton.com, which is in the business of providing communication products and services, amongst other things. Defendant derives a portion of its revenue from sales and distribution via electronic transactions conducted on and using at least, but not limited to, its Internet website located at www.eaton.com, and its incorporated and/or related systems (collectively the “Eaton Website”). Plaintiff is informed and believes, and on that basis alleges, that, at all times relevant hereto, Defendant has done and continues to do business in this judicial district, including, but not limited to, providing products/services to customers located in this judicial district by way of the Eaton Website.

JURISDICTION AND VENUE

5. This is an action for patent infringement in violation of the Patent Act of the United States, 35 U.S.C. §§1 *et seq.*

6. The Court has subject matter jurisdiction over this action pursuant to 28 U.S.C. §§1331 and 1338(a).

7. This Court has personal jurisdiction over Defendant by virtue of its systematic and continuous contacts with this jurisdiction and its residence in this District, as well as because of the injury to Plaintiff, and the cause of action Plaintiff has risen in this District, as alleged herein.

8. Defendant is subject to this Court’s specific and general personal jurisdiction pursuant to its substantial business in this forum, including: (i) at least a portion of the infringements alleged herein; (ii) regularly doing or soliciting business, engaging in other persistent courses of conduct, and/or deriving substantial revenue from goods and services

provided to individuals in this forum state and in this judicial District; and (iii) being incorporated in this District.

9. Venue is proper in this judicial district pursuant to 28 U.S.C. §1400(b) because Defendant resides in this District under the Supreme Court's opinion in *TC Heartland v. Kraft Foods Group Brands LLC*, 137 S. Ct. 1514 (2017) through its physical, regular and established place of business in this District (i.e., the Akron location).

FACTUAL ALLEGATIONS

10. On May 7, 2013, the United States Patent and Trademark Office ("USPTO") duly and legally issued the '199 Patent, entitled "Variable throughput reduction communications system and method" after a full and fair examination. The '199 Patent is attached hereto as Exhibit A and incorporated herein as if fully rewritten.

11. Plaintiff is presently the owner of the '199 Patent, having received all right, title and interest in and to the '199 Patent from the previous assignee of record. Plaintiff possesses all rights of recovery under the '199 Patent, including the exclusive right to recover for past infringement.

12. Dr. Donald L. Schilling was, and continues to be, the CEO of Linex Technologies, Inc. ("Linex") during the development of the '199 Patent.

13. Dr. Schilling is a fact witness to the development of the technology in the '199 Patent. A declaration of facts by Dr. Schilling is attached hereto as Exhibit B.

14. The '199 Patent was originally owned by Linex. Ex. B at ¶9.

15. As identified in the '199 Patent, previous communications systems, namely in packet-communications spread-spectrum multi-cell systems, high-speed data would be implemented with a method of parallel channels, using parallel chip-sequence signals. Ex. A, 1:37-

41. By using multiple correlators or matched filters, multiple-orthogonal chip-sequence signals would be sent simultaneously thereby increasing the data rate while still enjoying the advantage of a high processing gain. Ex. A, 1:41-44. The multiple chip-sequence signals behaved as multiple users in a single location. Ex. A, 1:44-45. Multipath was ameliorated by a RAKE receiver, and the interference to be overcome by the processing gain was that generated by other users, in the same or adjacent cells. Ex. A, 1:46-48.

16. In previous communication systems, when a remote station was within a cell or cell sector, the path differences from base stations located in the adjacent cells ensured that the interference was small enough so as not to cause the error rate of the wanted signal to deteriorate below a usable level. Ex. A, 1:50-54. When the remote station was near the edge of the cell, however, the interference would be substantial as the interference can result from two adjacent cells. Ex. A, 1:54-57.

17. One previous method that was used to overcome this problem in a conventional spread-spectrum system was to increase the processing gain in order to increase the immunity from interference. Ex. A, 1:58-61. To do this, in a fixed bandwidth system, the data rate was reduced, and the integration time of the correlator or the length of the matched filter was increased accordingly. Ex. A, 1:61-63. This method, however, changed the length of the correlator sequence, or changes the size of the matched filter; both of which impact the architecture of the receiver. Ex. A, 1:63-66. In addition, with increased integration times, the chip-tracking loop and phase-tracking loop would have to function flawlessly and the allowable frequency offset must have been reduced, requiring at least a frequency locked loop. Ex. A, 1:66-2:3.

18. The invention claimed in the '199 Patent addresses these needs and inefficiencies by providing an improved communication system.

19. Claim 11 of the '199 Patent states:

“11. A receiver for recovering wireless data conveyed in data symbols by a plurality of different subchannel signals transmitted over a wireless channel, comprising:

demodulator circuitry for detecting the transmitted signals in a plurality of demodulated channels;

decoder circuitry for FEC decoding and de-interleaving the plurality of demodulated channels, providing a multiplicity of decoded channels, each having an error rate;

command processor circuitry responsive to the error rate of the decoded channels for generating a data-rate control signal to produce a desired data rate to be sent by the data symbol transmitter of the signals, the data rate control signal controlling operation of circuitry at the transmitter to produce the desired data rate to be sent by the data symbol transmitter of the signals;

transmitting circuitry for conveying the error rate dependent rate control signal back to the data symbol transmitter; and

multiplexer circuitry for combining the multiplicity of decoded channels into a signal stream of received data.” See Ex. A.

20. Claim 12 of the '199 Patent states:

“12. The receiver of claim 11 wherein the decoder circuitry includes circuitry to decode FEC codes of different rates.” See Ex. A.

21. Claim 13 of the '199 Patent states:

“13. A method for recovering wireless data conveyed in data symbols by a plurality of different subchannel signals transmitted over a wireless channel, comprising the steps of:

detecting the transmitted signals in a plurality of demodulated channels;

FEC decoding and de-interleaving the plurality of demodulated channels, providing a multiplicity of decoded channels, each having an error rate;

using command processor circuitry responsive to the error rate of the decoded channels to generate a data-rate control signal to produce a desired data rate to be sent by the data symbol transmitter of the signals,

transmitting the error rate dependent data-rate control signal back to the data symbol transmitter; and

multiplexing the multiplicity of decoded channels into a single stream of received data.” See Ex. A.

22. Claim 14 of the '199 Patent states:

“14. The method of claim 13 wherein the decoding step includes decoding FEC codes of different rates.” See Ex. A.

23. At least claim 11 of the ‘199 Patent recite a non-abstract receiver and method for a communication system.

24. The receiver of Claims 11 and 13 in the ‘199 Patent is an improvement on prior solutions because the command processor circuitry is responsive to the error rate of the decoded channels to generate a data rate control signal to produce a desired data rate to be sent by the data symbol transmitter of the signals. Ex. B at ¶26.

25. The ‘199 Patent highlighted this unique and discrete idea during its prosecution.

26. During prosecution of the ‘199 Patent, Linex indicated that Claim 11 is directed to “a receiver including command processor circuitry response to the error rate of decoded channels for generating a ‘data-rate control signal to produce a desired data rate to be sent by the transmitter of the signals’ such that the data rate control signal controls operation of the circuitry at the transmitter to produce a desired data rate. That is, independent Claim 11 recites the control signal being of a nature to control operation of circuitry at the transmitter to produce the desired data rate.” See Ex. B at ¶26 citing to Exhibit 2 at 218.

27. Claims 11 and 13 in the ‘199 Patent is not directed to an abstract idea because Claim 11 (and its method of Claim 13) was able to overcome a network-centric problem that existed in the prior art by allowing the receiver to maintain a high data rate without affecting the architecture of the receiver and maintain an immunity to interference. See generally Ex. B at ¶24.

28. At least Claims 11 and 13 of the ‘199 Patent provide the inventive concept of a receiver and method for a communication system.

29. The ‘199 Patent’s advantages and benefits are inventive, unexpected and superior because it provides improvements to existing computer functionality, provides specific non-

conventional and non-generic arrangements of known, conventional pieces to overcome an existing problem; provides ordered combination of claimed steps in the receiver using unconventional rules that are different than previously used; and provides improved technological results.

30. The '199 Patent provides improvements to then existing computer network functionality. Ex. B at ¶24.

31. Claim 11 (and its method of Claim 13) in the '199 Patent specifically identifies how the improved computer functionality is carried out in an unexpected way. See generally Ex. B at ¶24-30.

32. To deal with the vulnerability of interference in an intended receiver for receivers in adjacent cells, the receiver of Claim 11 (and its method of Claim 13) in the '199 Patent requires command processor circuitry responsive to the error rate of the decoded channels for generating a data-rate control signal to produce a desired data rate to be sent by the data symbol transmitter of the signals. Ex. B at ¶25, 27.

33. These specific elements, as combined, accomplish the desired result of increased immunity at the intended receiver, from interference generated by nearby transmitters and from multipath interference produce by the same transmitter, transmitting signals that are reflected from multiple objects between receivers in adjacent cells. Ex. B at ¶27.

34. These specific elements, including the command processor circuitry, also accomplish the desired result increasing immunity from interference that was a then existing problem in the relevant field of spread-spectrum communication systems. Ex. B at ¶27.

35. Claim 11 (and its method of Claim 13) in the '199 Patent provides other benefits over conventional receivers, including increased flexibility, faster transmission times and data

transfer, as well as reduced manufacturing requirements. Ex. B at ¶27.

36. The '199 Patent provides specific non-conventional and non-generic arrangements of known, conventional pieces to overcome an existing problem. See generally Ex. B at ¶¶24-30.

37. Claim 11 (and its method of Claim 13) in the '199 Patent specifically identify how the improved computer functionality is carried out in an unexpected way. See generally Ex. B at ¶¶24-30.

38. The receiver of Claim 11 (and its method of Claim 13) in the '199 Patent deals with the vulnerability of interference of the intended receiver to changes in the amount of interference. Ex. B at ¶28.

39. The receiver of Claim 11 (and its method of Claim 13), provides a satisfactory error rate (QoS) at the intended receiver. Ex. B at ¶28.

40. Prior art methodologies would simply increase processing gain to try to overcome interference, however this required more processing power and changing the architecture of the receiver. Ex. B at ¶28.

41. The receiver of Claim 11 (and its method of Claim 13) provides specific elements that were an unconventional arrangement of elements because the prior art methodologies would simply increase processing gain to try to overcome interference, however this required more processing power and changing the architecture of the receiver.

42. By adding the command processor circuitry, the '199 Patent was able to unconventionally generate a data-rate control signal based on an error-rate of the decoded channels. See generally Ex. B at ¶¶24-30.

43. The receiver of Claim 11 (and its method of Claim 13) in the '199 Patent provides a receiver that would work with many types of spread-spectrum communications systems, and is

adjustable, either continually or periodically, depending on the needs of the system designer; is simpler to manufacture than the preexisting receivers that required architectural changes to overcome interference; and reduces transmission errors. Ex. B at ¶29.

44. Claim 11 (and its method of Claim 13) provided non-conventional and non-generic arrangements of known, conventional pieces to overcome an existing problem because the receiver of Claim 11 (and its method of Claim 13) in the '199 Patent provide a receiver that would work with many types of spread-spectrum communications systems, and is adjustable, either continually or periodically, depending on the needs of the system designer; is simpler to manufacture than the preexisting receivers that required architectural changes to overcome interference; and reduces transmission errors.

45. The receiver of Claim 11 in the '199 Patent provides a receiver that would not preempt all ways of throttling or limiting information between a transmitter and a receiver because the data-rate control signal is based on the error-rate of the decoded channels. Ex. B at ¶30.

46. The receiver of Claim 11 (and its method of Claim 13) in the '199 Patent provide specific non-conventional and non-generic arrangements of known, conventional pieces to overcome an existing problem because receiver that would not preempt all ways of throttling or limiting information between a transmitter and a receiver. See generally Ex. B at ¶30.

47. There are other ways to throttle or limit information between a transmitter and a receiver because that do not have a data-rate control signal based on the syndrome (error-rate) of the decoded channels. There may be other ways to limit information between a transmitter and a receiver because other receivers could have the data-rate control signal based on the transmission of a known pilot signal. In this instance, an additional receiver, measures the distortion/attenuation of the pilot and that receiver sends back to the Transmitter information to control the data rate. The

pilot signal is indirectly related to the actual received data. Ex. B at ¶30.

48. The receiver of Claim 11 (and its method of Claim 13) does not preempt all throttling or limiting information between a transmitter and a receiver because the data-rate control signal could be based on other timing information from other channels, such as those that use pilot signals. See generally Ex. B at ¶30.

49. The '199 Patent provides improved technological results. See generally Ex. B at ¶24-30.

50. To deal with the vulnerability of an intended receiver to multipath and other interfering received signals, the receiver of Claim 11 (and its method of Claim 13) in the '199 Patent requires command processor circuitry responsive to the syndrome or error rate of the decoded channels for generating a data-rate control signal to produce a desired data rate to be sent by the data symbol transmitter of the signals. Ex. B at ¶27.

51. Claim 11 (and its method of Claim 13) in the '199 Patent specifically identifies how the improved computer functionality is carried out in an unexpected way inasmuch as to deal with the vulnerability of an intended receiver to multipath and other interfering received signals, the receiver of Claim 11 (and its method of Claim 13) in the '199 Patent requires command processor circuitry responsive to the syndrome or error rate of the decoded channels for generating a data-rate control signal to produce a desired data rate to be sent by the data symbol transmitter of the signals. See generally Ex. B at ¶24-30.

52. The data-rate control signal being based on error-rate in the decoded channels is a specific implementation of varying the way the control signal is generated that improves the ability of prior art transmission of data signals between a transmitter and a receiver. See generally Ex. B at ¶24-30.

53. The ‘199 Patent encompasses patent eligible subject matter inasmuch as at least Claims 11-14 of the ‘199 Patent are not an abstract idea but rather are an inventive idea of a novel and proper design of a receiver and method thereof to employ a command processor circuitry responsive to the (syndrome) error rate of the decoded channels for generating a data-rate control signal to produce a desired data rate to be sent by the data symbol transmitter of the signal.

54. Further, at least Claims 11-14 of the ‘199 Patent provide inventive concepts.

55. At the pleading stage, representative Claim 11 of the ‘199 Patent has been held, when considered in light of the specification, to be not functionally defined without a specific implementation; it is tied to a concrete structure, the command processor. And if it was directed to an abstract idea, it still provides a specific technological solution that improves the way spread-spectrum communication systems operate. *See Stormborn Technologies, LLC v. TopCon Positioning Systems, Inc.*, 2020 WL 1274965, 19-cv-07804-WHO, Docket Entry No. 35 (March 17, 2020).

56. Defendant commercializes, inter alia, devices or methods that perform all the steps recited in at least one claim of the ‘199 Patent. More particularly, Defendant commercializes, inter alia, methods that perform all the steps recited in Claims 11-14 of the ‘199 Patent. Specifically, Defendant makes, uses, sells, offers for sale, or imports a device or method that encompasses that which is covered by Claim 11-14 of the ‘199 Patent.

DEFENDANT’S PRODUCT(S)

57. Defendant offers solutions, such as “Eaton’s ELPRO 645M-1 4g/LTE Router” (the “Accused Product”), that practices a method for recovering wireless data conveyed in data symbols by a plurality of different sub-channel signals transmitted over a wireless channel which infringe the ‘199 Patent literally or under the doctrine of equivalents. A non-limiting and exemplary claim

chart comparing the Accused Product of Claim 13 of the '199 Patent is attached hereto as Exhibit C and is incorporated herein as if fully rewritten.

58. As recited in one step of Claim 13, the system, at least in internal testing and usage, utilized by the Accused Product practices a method for recovering wireless data conveyed in data symbols by a plurality of different sub-channel signals transmitted over a wireless channel. See Ex. C.

59. As recited in another step of Claim 13, the system, at least in internal testing and usage, utilized by the Accused Product practices detecting the transmitted signals in a plurality of demodulated channels. See Ex. C.

60. As recited in another step of Claim 13, the system, at least in internal testing and usage, utilized by the Accused Product practices FEC decoding and de-interleaving the plurality of demodulated channels, providing a multiplicity of decoded channels, each having an error rate. See Ex. C.

61. As recited in another step of Claim 13, the system, at least in internal testing and usage, utilized by the Accused Product practices using command processor circuitry responsive to the error rate of the decoded channels to generate a data-rate control signal to produce a desired data rate to be sent by the data symbol transmitter of the signals. See Ex. C.

62. As recited in another step of Claim 13, the system, at least in internal testing and usage, utilized by the Accused Product practices transmitting the error rate dependent data-rate control signal back to the data symbol transmitter. See Ex. C.

63. As recited in another step of Claim 13, the system, at least in internal testing and usage, utilized by the Accused Product practices multiplexing the multiplicity of decoded channels into a single stream of received data. See Ex. C.

64. As recited in one step of Claim 14, the system, at least in internal testing and usage, utilized by the Accused Product practices decoding FEC codes of different rates. See Ex. C.

65. The elements described in the preceding paragraphs are covered by at least Claim 11 of the '199 Patent literally or under the doctrine of equivalents. Thus, Defendant's use of the Accused Product is enabled by the method described in the '199 Patent.

INFRINGEMENT OF THE PATENT-IN-SUIT

66. Plaintiff realleges and incorporates by reference all of the allegations set forth in the preceding paragraphs

67. In violation of 35 U.S.C. § 271, Defendant is now, and has been directly infringing the '199 Patent literally or under the doctrine of equivalents.

68. Defendant has had knowledge of infringement of the '199 Patent at least as of the service of the present Complaint.

69. Defendant has directly infringed and continues to directly infringe at least one claim of the '199 Patent by using, at least through internal testing or otherwise, the Accused Product without authority in the United States, and will continue to do so unless enjoined by this Court. As a direct and proximate result of Defendant's direct infringement of the '199 Patent, Plaintiff has been and continues to be damaged.

70. Defendant has induced others to infringe the '199 Patent, literally or under the doctrine of equivalents, by encouraging infringement, knowing that the acts Defendant induced constituted patent infringement, and its encouraging acts actually resulted in direct patent infringement.

71. Defendant has been and continues to materially contribute to their own customers' infringement of the '199 Patent, literally or under the doctrine of equivalents, by selling the

Accused Products to customers for use in a manner that infringes one or more claims of the '199 Patent. Moreover, the Accused Products are not a staple article of commerce suitable for substantial non-infringing use.

72. By engaging in the conduct described herein, Defendant has injured Plaintiff and is thus liable for infringement of the '199 Patent, pursuant to 35 U.S.C. § 271.

73. Defendant has committed these acts of infringement without license or authorization.

74. As a result of Defendant's infringement of the '199 Patent, Plaintiff has suffered monetary damages and is entitled to a monetary judgment in an amount adequate to compensate for Defendant's past infringement, together with interests and costs.

75. Plaintiff will continue to suffer damages in the future unless Defendant's infringing activities are enjoined by this Court. As such, Plaintiff is entitled to compensation for any continuing and/or future infringement up until the date that Defendant is finally and permanently enjoined from further infringement.

76. Plaintiff reserves the right to modify its infringement theories as discovery progresses in this case; it shall not be estopped for infringement contention or claim construction purposes by the claim charts that it provides with this Complaint. The claim chart depicted in Exhibit B is intended to satisfy the notice requirements of Rule 8(a)(2) of the Federal Rule of Civil Procedure and does not represent Plaintiff's preliminary or final infringement contentions or preliminary or final claim construction positions.

DEMAND FOR JURY TRIAL

77. Plaintiff demands a trial by jury of any and all causes of action.

PRAYER FOR RELIEF

WHEREFORE, Plaintiff prays for the following relief:

- a. That Defendant be adjudged to have directly infringed the '199 Patent either literally or under the doctrine of equivalents;
- b. That Defendant be adjudged to have induced infringement of the '199 Patent either literally or under the doctrine of equivalents;
- c. That Defendant be adjudged to have contributorily infringed the '199 Patent either literally or under the doctrine of equivalents;
- d. An accounting of all infringing sales and damages including, but not limited to, those sales and damages not presented at trial;
- e. That Defendant, its officers, directors, agents, servants, employees, attorneys, affiliates, divisions, branches, parents, and those persons in active concert or participation with any of them, be permanently restrained and enjoined from directly infringing the '199 Patent;
- f. An award of damages pursuant to 35 U.S.C. §284 sufficient to compensate Plaintiff for the Defendant's past infringement and any continuing or future infringement up until the date that Defendant is finally and permanently enjoined from further infringement, including compensatory damages;
- g. An assessment of pre-judgment and post-judgment interest and costs against Defendant, together with an award of such interest and costs, in accordance with 35 U.S.C. §284;
- h. That Defendant be directed to pay enhanced damages, including Plaintiff's attorneys' fees incurred in connection with this lawsuit pursuant to 35 U.S.C. §285; and
- i. That Plaintiff be granted such other and further relief as this Court may deem just and proper.

Dated: August 26, 2020

Respectfully submitted,

SAND, SEBOLT & WERNOW CO., LPA

/s/ Howard L. Wernow

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